

XP-002258811

AN - 1991-234120 [32]

A - [001] 014 03- 038 04- 075 143 144 151 155 163 166 169 170 171 195 225
239 344 348 357 428 435 516 519 551 560 566 604 608 623 627 628 668 669

AP - JP19890291974 19891109

CPY - NIRA

DC - A23 A85 L03

FS - CPI

IC - B29C71/02 ; B29K67/00 ; C08G63/60 ; C08J5/18 ; C08L67/03

KS - 0004 0016 0037 0229 0231 1291 1319 1462 1842 1920 2148 2150 2155 2164
2413 2513 2590 2628 2667 2740 2818

MC - A05-E02 A05-E04E A09-A02A A12-E07A A12-E08A A12-S06 L03-A L03-B05L1
L03-H04E1

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PN - JP3152132 A 19910628 DW199132 000pp

PR - JP19890291974 19891109

XA - C1991-101852

XIC - B29C-071/02 ; B29K-067/00 ; C08G-063/60 ; C08J-005/18 ; C08L-067/03

AB - J03152132 Film is composed of polyester with anisotropic property consisting of major component of p-hydroxybenzoic acid, terephthalic acid and ethylene glycol having melting peak at 250-300 deg.C, measured in nitrogen atmos. by differential scanning calorimeter with 20 deg.C./min. of rising temp., and 2 cal/g or more of melting enthalpy.

- Polyester of p-hydroxybenzoic acid component (70-85 mol.%), terephthalic acid component (15-7.5), and ethylene glycol component (15-7.5 mol.%) is formed into film, which is heat-treated at 200 deg.C to m.pt. of the polyester in vacuum or reduced pressure.
- USE/ADVANTAGE - Liq. crystal polyester film is used for magnetic tape or base film of flexible print circuit.
- In an example for (1) synthesis of polyester, polyethylene terephthalate chip and p-acetoxybenzoic acid powder (40/60 mol.%) are reacted with removal of acetic acid, and polymerised at 280 deg.C for 3 hrs. to form polyester chip. The chip is reacted at 280 deg.C for 40 mins. with p-acetoxybenzoic acid (20/80 mol.%) and polymerised at 300 deg.C for 4 hrs. to form polyester chip. Melting temp. of polyester chip is 278 deg.C. (2) formation of film, polyester chip is heated at 290 deg.C and extruded with a die to form polyester film, which is heat-treated at 200 deg.C for 200 hrs. to obtain liq. crystal film. Melting peak of the film is 284 deg.C; and Delta H (cal/g) is 2.2. (5pp Dwg.No.0/0)

IW - LIQUID CRYSTAL POLYMER FILM MAGNETIC TAPE COMPRISE POLYESTER COMPONENT
P HYDROXY BENZOIC ACID TEREPHTHALIC ACID ETHYLENE

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NC - 001

OPD - 1989-11-09

ORD - 1991-06-28

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TI - Liq. crystal polymer film used for e.g. magnetic tape - comprises polyester with components of p-hydroxy benzoic acid, terephthalic acid and ethylene